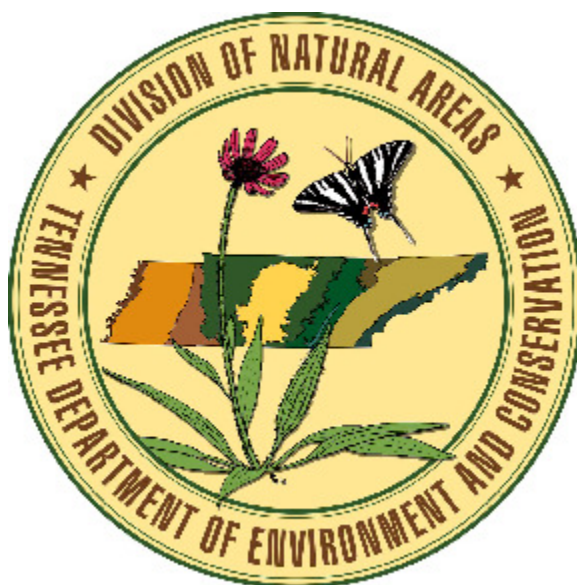


Division of Natural Areas

Tennessee Department of Environment and Conservation

Bureau of Parks and Conservation

Fiscal Year 2006/2007 Annual Report



**The Mission of the Division of Natural Areas is to Restore
and Conserve Tennessee's Natural Biological Diversity**

Issued December 7, 2007

**Division of Natural Areas
Tennessee Department of Environment and Conservation
Bureau of Parks and Conservation
2006/2007 Annual Report Summary**

Division Highlights

- 77 State Natural Areas covering approximately 110,000 acres
- 15 Registered State Natural Areas
- 2 new State Natural Areas established totaling 2,203 acres
- 1 existing State Natural Area expanded by 122 new acres
- Completed 3 individual land acquisition projects totaling acquisition of 618 acres
- Completed 5 Bowater land acquisition projects totaling 8,283 acres
- 13 Designated State Scenic Rivers covering approximately 390 river miles
- 0 new Designated State Scenic Rivers
- 80%, or 20 of 25 ecoregions in Tennessee represented by State Natural Areas
- 73%, or 8 of 11 watersheds in Tennessee represented by State Scenic Rivers
- 35.9 %, or 161 of 449 targeted rare plant species protected by Natural Areas and Scenic Rivers
- 20.6 %, or 90 of 436 targeted rare animal species protected by Natural Areas and Scenic Rivers
- 43 Scientific Collecting Permits reviewed and issued
- 9 Rare Plant Dealer Licenses reviewed and issued
- 35 for-fee Environmental Reviews conducted
- 372 Public Notices and EIS Documents reviewed and responded to
- 25 Local Parks and Recreation Fund Grants reviewed and responded to
- 1 new Data Sharing Contract with state and federal government agencies, 6 current Contracts
- 11 new Data Sharing Agreements with timber companies, universities, researchers, land managers; 29 current Agreements
- 538 State Listed plant species, including 201 State Endangered plant species
- 21 Federal Listed and 3 Candidate Plant Species
- 69 Federal Listed and 15 Candidate Animal Species
- Completed 4 non-USFWS contract survey and data projects, and implemented 1 new project
- 40 Ginseng Dealers Licensed
- 8,213 lbs of Ginseng Harvested in Tennessee
- 8,079 lbs of Ginseng Certified for Export from Tennessee through State Park Certifying Officials
- Completed field work on \$68,112 USFWS grant for 13 rare plant conservation projects
- Awarded \$80,913 USFWS Grant for 14 rare plant conservation projects
- Awarded \$20,000 USFWS Grant for 2 rare plant conservation projects
- Awarded a \$517,550 USFWS RLA Grant for acquisition of 2,171-acre acquisition
- Awarded \$2,000 in Tennessee Parks and Greenways Foundation trail grants for Natural Areas
- Celebrated State Natural Areas Week statewide as formally proclaimed by Governor Bredesen

- Hosted Natural Area Events for Earth Day, National Trails Day, and National Public Lands Day
- Held 12 monthly State Natural Areas Field Trips
- Hosted 1 meeting of the Natural Areas Advisory Committee
- Hosted first ever Tennessee Youth Conservation Corps Natural Areas Team
- \$166,049 in total Division revenues for fiscal year 06/07
- 13 Press Releases regarding DNA activities
- 28 News and Magazine articles regarding DNA activities
- 2 Publications by DNA staff

Total Division Staff

- 13 Total Full Time Positions (1 Seasonal Part Time Position)
 - 11 in Nashville
 - 1 in Knoxville Field Office
 - 1 in Jackson Field Office

06/07 Expenditures (Final as of September 8, 2007)

- State Appropriations: \$824,413
- Revenues: \$166,049
- Total Income and Expenses: \$990,462

STATE NATURAL AREAS PROGRAM

2006/2007 Annual Report

The Tennessee Natural Areas Program was established in 1971 with the passage of the Tennessee Natural Areas Preservation Act. Since passage of this act, the Tennessee General Assembly has designated 77 State Natural Areas that encompass approximately 110,000 acres of ecologically significant land throughout Tennessee. The Program has increased steadily in adding new natural areas, and since 2002 has added 15 new designated Natural Areas covering an additional 24,058. The Natural Areas Program also has approximately 50 Registered State Natural Areas (this program is under review). The Program has a staff of 5, with two of its staff regional decentralized into east and west Tennessee offices in Jackson and Knoxville, while the Middle Tennessee regional staff works out of the Nashville Home Office.

Staff

This program has a staff of 5 (Program Manager, Science Director, and 3 Regional Stewardship Ecologists).

Enabling Legislation

Tennessee Natural Areas Preservation Act of 1971

Major accomplishments in 2006/2007

- Grand opening of Carroll Cabin SNA in Decatur County
- Grand opening at Riverwoods SNA in Shelby County
- Grand opening of Cheeks Bend at Duck River SNA Complex
- Reviewed and completed revision of all webpage narratives and maps
- Received annual reports for all natural areas
- Planned and implemented State Natural Areas Week activities, as proclaimed by Governor Bredesen, for April 15 through 21 (37 events offered, more than 260 participants).
- Begin inaugural TYCC Program hiring 6 students who participated for 8 weeks doing stewardship activities with Program staff in numerous natural areas statewide.
- Completed interpretative display for House Mt, Carroll Cabin, Stillhouse Hollow, and Riverwoods SNAs
- Signed Memorandum of Understanding for Riverwoods SNA with City of Germantown, Memphis Garden Club, and Wolf River Conservancy
- Provide 12 monthly guided field trips to various natural areas throughout the year as posted on the Department's website calendar
- Planned and organized public events for Earth Day, National Public Lands Day, and National Trails Day
- Updated GIS coverage and tabular data for all SNAs
- Completed assessment and site visits for 2 new SNAs and proposed their designation to the Natural Areas Advisory Committee, as well as an addition to one existing SNA
- Convened a meeting of the Natural Areas Advisory Committee Dec 1, 2006

- Received \$2,000 trail grant from the Tennessee Parks and Greenways Foundation for trail work at Stillhouse Hollow SNA in Maury County
- Riverwoods SNA benefited from a Tennessee Parks and Greenways Foundation grant that was awarded to the City of Germantown for trail improvements
- The Garden Club of Memphis provided the DNA a financial support for construction of a kiosk at Riverwoods
- Completed acquisition of 122-acre addition to Rugby SNA in Morgan County
- Completed acquisition of 35-acre Bon Aqua Woods tract in Hickman County
- Completed acquisition of 5 tracts totaling 461 acres at Flat Rock Cedar Glade SNA in Rutherford County from TNC
- Completed 5 Bowater acquisitions as follows: 1,133 acres at Virgin Falls; 1,953 acres at Laurel Snow; 679 acres at Stinging Fork Falls; 2,229 acres at North Chickamauga Creek Gorge; and 2,289 acres at Fall Creek Falls
- TDEC signed a MOU with the Natural Areas Association to host the 2008 Natural Areas Association Annual Conference Oct 14 – 17, 2008 and DNA assumed lead responsibility for organizing this national conference
- Began planning for the Natural Areas Association Annual Conference, Brian Bowen, conference chair, hired a Program Committee Chair and a Conference Organizer.
- Provided oversight for Eagle Scout projects at Short Springs, House Mt, and Stillhouse Hollow Falls SNAs
- Developed and completed footbridge project and trail addition at Short Springs SNA
- Became responsible for stewardship activities on Bowater transferred SNAs
- Completed major trail development at Hampton Creek Cove SNA using Americorps, Student Conservation Association, and Southern Appalachian Highland Conservancy Volunteers.
- Conducted a workshop and fieldtrip at the Land Trust Alliance Rally in Nashville in cooperation with the Natural Areas Association
- Completed SNAs image portfolio
- Conducted fieldtrip at Hampton Creek Cove for the Southeast Regional State Parks Managers meeting.
- Completed Sequatchie Cave SNA management plan
- Submitted Iris fund proposals and contracted invasives species projects on Couchville, Flat Rock, Manus Road, Mountview, and Short Springs SNAs.
- Complete boundary fencing projects at Flat Rock, Sunnybell, and Mt. View SNAs
- Began Implementation of Weeds Inventory Mapping System (WIMS)

Ongoing activities

- 2008 Natural Areas Association Annual Conference planning
- Participate in State Parks ATBI Steering Committee in developing inventory protocols
- Participate in the Hemlock Woolly Adelgid Statewide Task Force and conducted HWA monitoring in SNAs
- Continue to update SNA image portfolio
- Review and revise Registered Natural Areas Program agreement
- Continue monitoring Performance Measures progress
- Trail and parking area development at Bon Aqua Woods SNA

- Renovations and improvements at Stinging Fork Falls SNA in Rhea County
- Revise and update management plans for North Chickamauga Creek Gorge, Cedars of Lebanon, and Hampton Creek Cove SNAs
- Continued GPS trails for SNAs

Planned activities for 2007/2008

- Provide leadership in planning 2008 Natural Areas Association Annual Conference
- Host 2008 Natural Areas Association Annual Conference
- Complete revision of RSNA Program
- Designate 2 new SNAs: Morrison Meadow and Smith Glade and additions. Additions are Virgin Falls, Laurel Snow, Stinging Fork, North Chickamauga Creek Gorge, Fall Creek Falls, Rugby, Hawkins Cove, and Frozen Head, total acres = 17,499 acres.
- Seek 4 additional staff (Director of Operations, 3 Regional Stewardship Ecologist) through 2007/2008 budget improvement request
- Complete the above mentioned management plans
- Complete a new lease agreement with Southern Appalachian Highland Conservancy for Hampton Creek Cove SNA
- Develop and execute a lease agreement with historic Rugby, Inc. for a portion of Rugby SNA
- Sign and implement CMA with TWRA at Hampton Creek Cove.

TENNESSEE'S 77 DESIGNATED STATE NATURAL AREAS

State Agency Owned	59
Federal Agency Owned	6
Local Government Owned	2
Privately Owned	10

State Agencies (59 total)

Tennessee State Parks (20)

Big Cypress Tree
Bone Cave
Burgess Falls
Carter Natural Area
Colditz Cove
Dunbar Cave
Fall Creek Falls State Park
Frozen Head State Park
Grundy Forrest
Hawkins Cove
Laurel Snow
Meeman-Shelby Forest
Montgomery Bell
Natural Bridge
North Chickamauga Creek Gorge
Ozone Falls
Piney Falls
Pogue Creek
Radnor Lake
Savage Gulf

Division of Natural Areas (31)

Barnett's Woods
Bon Aqua Woods
Campbell Bend Barrens
Carroll Cabin Barrens
Chimneys
Couchville Cedar Glade
Crowder Cemetery Barrens
Devil's Backbone
Dry Branch
Falling Water Falls
Flat Rock Cedar Glade and Barrens
Ghost River
Hampton Creek Cove

House Mountain
Manus Road
May Prairie (Joint Ownership: TWRA & DNA)
Mount View Glade
Overbridge
Powell River Preserve
Riverwoods
Rugby
Sequatchie Cave
Short Springs (Joint Ownership: DNA, City of Tullahoma, and TVA)
Stillhouse Hollow Falls
Stinging Fork Falls
Sunk Lake
Sunnybell Cedar Glade
Vesta Cedar Glade (Joint Ownership: DNA & TDF)
Virgin Falls
Walterhill Floodplain
Watauga River Bluffs

Tennessee Department of Agriculture, Division of Forestry (3)

Cedars of Lebanon State Forest Natural Area
Hicks Gap
Vine Cedar Glade

Tennessee Wildlife Resources Agency (5)

Duck River Complex (Yanahli WMA)
Reelfoot Lake
Walker Branch Dragonfly and Damselfly Preserve
William L. Davenport Refuge
Walls of Jericho

Federal Agencies (6 total)

National Park Service (4)

Honey Creek Pocket Wilderness
Roundtop Mountain
Stones River Cedar Glade and Barrens
Twin Arches

U. S. Army Corps of Engineers (2)

Elsie Quarterman Cedar Glade
Fate Sanders Barrens

Local Government Agencies (2 total)

City of Kingsport (1)

Bays Mountain

Shelby County (1)

Lucius E. Burch, Jr. (Easement held by the Land Trust for Tennessee)

Private Ownership (NGO's) (5 total)**The Nature Conservancy (4)**

Hubbard's Cave (Pending conservation easement to TDEC-DNA)

Taylor Hollow (Pending conservation easement to TDEC-DNA)

Washmorgan Hollow (Pending conservation easement to TDEC-DNA)

William B. Clark Conservation Area (Pending conservation easement to TDEC-DNA)

Swan Trust (1)

Langford Branch (Pending conservation easement to TDEC-DNA)

Private Corporation (1 total)**Nashville Superspeedway (1)**

Gattinger's Cedar Glade and Barrens (DNA holds a conservation easement)

Private Ownership (Other) (4 total)

Auntney Hollow (DNA holds a conservation easement)

Morril's Cave

Short Mountain - Jim Cummings Natural Area

Sneed Road Cedar Glade

STATE SCENIC RIVERS PROGRAM

2006/2007 Annual Report

The Scenic Rivers Program was established in 1968 with the passage of the Tennessee Scenic Rivers Act. Since passage of this act, the Tennessee General Assembly has designated sections of 13 rivers covering approximately 390 river miles as State Scenic Rivers. Many of these Scenic Rivers are managed cooperatively with other local, state and federal agencies as well as with non-governmental organizations. The Scenic Rivers Program seeks to preserve valuable selected rivers, or sections thereof, in their free-flowing natural or scenic conditions and to protect their water quality and adjacent lands. The program seeks to preserve within the scenic rivers system itself, several different types and examples of river areas, including mountain streams and deep gorges of east Tennessee, the pastoral rivers of middle Tennessee, and the swamp rivers of west Tennessee. State Scenic Rivers are managed according to the Rules for the Management of Tennessee Natural Resource Areas.

Staff

This program is currently not staffed

Enabling Legislation

Tennessee Scenic Rivers Act of 1968

Major Accomplishments for 2006/2007

- No significant activity as this program is currently not staffed

Ongoing Activities

- Working on web-based maps and narrative for the Scenic Rivers Program web-page
- Reviewing and commenting on NEPA documents and other environmental permits and projects for potential impacts to Scenic Rivers
- Coordinating closely with TDEC-WPC on permit processes for Scenic Rivers
- Seeking creative approaches to staffing and funding for this program
- Continue to work on narratives and maps for the Tennessee Heritage Conservation Act assessment of need
- Continue monitoring Performance Measures progress
- \$0 in total program revenues for fiscal year 05/06

Planned Activities for 2007/2008

- Complete web-page updates to include maps and narratives for all State Scenic Rivers
- Seek 1 staff position (Program Manager) through 2007/2008 budget improvement request
- Seek cooperative projects and closer coordination with the USDA Natural Resources Conservation Service, including the development of a Scenic Rivers bulletin for NRCS field staff

TENNESSEE'S 13 DESIGNATED STATE SCENIC RIVERS

BLACKBURN FORK

Class I That segment of the stream from the county road at Cummings Mill downstream one and one-half (1 1/2) miles.

Class II That segment from a point one and one-half (1 1/2) miles downstream from the county road at Cummings Mill downstream to its confluence with Roaring River.

BUFFALO RIVER

Class II The entire river, except that portion which lies within Wayne, Perry, Humphreys and Lewis counties.

CLINCH RIVER

Class III That portion from the Melton Hill Dam upstream to the Pellissippi Parkway.

COLLINS RIVER

Class II That segment which lies within the Savage Gulf State Natural Area.

CONASAUGA RIVER

Class I The entire segment of the river in Polk County, upstream from the Highway 411 bridge.

DUCK RIVER

Class II That segment of the Duck River beginning at Iron Bridge Road at river mile 136.4 and extending continuously to the boundary of Marshall County at river mile 173.7.

FRENCH BROAD RIVER

Class III That segment from the North Carolina state line to its confluence with Douglas Lake.

HARPETH RIVER

Class II The entire river except that segment lying north of Highway 100 and south of Interstate 40 in Davidson County; and except those segments located in Cheatham, Dickson and Williamson counties.

Class III Only that segment lying north of Highway 100 and south of Interstate 40; it being the specific intent to exclude all segments of the Harpeth River lying in or flowing through Cheatham, Dickson and Williamson counties.

HATCHIE RIVER

Class I The entire river in Tennessee from the state line in Fayette County to its confluence with the Mississippi River in Shelby County.

HIWASSEE RIVER

Class III That portion from the Highway 411 bridge to the North Carolina state line.

ROARING RIVER

Class I That segment from State Route 136 downstream two (2) miles.

Class II That segment from a point two (2) miles downstream from State Route 136, downstream to its confluence with the Cordell Hull Lake.

SPRING CREEK

Class I That segment from Waterloo Mill downstream to the Overton-Jackson county line.

Class II That segment between State Highway 136 and Waterloo Mill, and that segment downstream from the Overton-Jackson county line to its confluence with Roaring River.

TUCKAHOE CREEK

Class III The entire creek

NATURAL HERITAGE INVENTORY PROGRAM

2006/2007 Annual Report

The Natural Heritage Inventory Program (NHP) maintains a systematic computerized collection of information on the distribution and ecology of rare species and ecological sites across Tennessee. This database currently contains information on over 15,000 rare species and community occurrence records and hundreds of conservation sites. These data are used in directing conservation, restoration, and management activities for the Division and for other conservation agencies and NGOs. The rare species data are also used by state, federal, and local governmental agencies, NGOs, conservation partners, and private consultants to assist in land use planning and management, and in environmental permit preparation and review. NHP staff also provide environmental review comments of NEPA related to public works projects and permits.

Staff

This program has a staff of 4 (Program Manager, Data Manager, Zoologist, Botanist)

Enabling Legislation

Tennessee Rare Plant Protection and Conservation Act of 1985

Major Accomplishments for 2006/2007

- 538 State Listed plant species, including 201 State Endangered
- Rare species data management:
 - Mapped 548 new rare species and community occurrences
 - Digitally edited the shape on 321 existing rare species occurrences
 - Significantly edited 363 existing rare species occurrences
 - Created data and GIS files for 5 ecological sites
- 94 rare species occurrences either found or updated by DNA staff
- Reviewed and issued 43 scientific collection permits for research on State Parks and Natural Areas
- Performed 35 environmental review for fees
- 11 new data sharing agreements were executed, for a total of 29 current agreements
- Performed (and commented on most) 372 environmental reviews for public notices
- Performed and commented on 25 reviews for LPRF grants
- Visited UT Herbarium to review specimens of rare plants
- Rare species listing on web site updated 2 times
- Data partners updated 3 times
- Staff completed ecological assessment of Franklin State Forest
- \$67,272 in total program revenues for 05/06 fiscal year
- Attended Southeastern Regional Meeting for NatureServe and Natural Heritage Programs
- Completed contract related work with NatureServe to update occurrence ranks for 218 occurrences of 20 rare animal species

- Completed contract related work with NatureServe to update occurrence ranks for 147 occurrences of 14 rare plant species
- Completed contract related work with NatureServe to review and update global rank information for 4 rare plant species
- Began rare species and plant community inventory at Milan Army Ammunition Plant
- Began inventory for the federally listed pondberry (*Lindera melissifolia*) in West TN
- With professor at APSU, begin complete floristic inventory at Flat Rock State Natural Area
- Attended and presented at the annual meeting for the Alliance for the Cumberlands
- Aided in the Assessment of Needs for the Tennessee Heritage Conservation Trust Fund Act of 2005
- Provided rare species data training to Office of Surface Mining
- Attended Governor's Land and Water Conservation Forum
- Created ArcView/Biotics environmental review tools to speed up the process of identifying potentially impacted rare species
- Began distributing data in Google Earth KML format
- Organized and attended Tennessee Rare Plant Scientific Advisory Committee Meeting
- Renewed ties with conservation groups involved in preserving and monitoring the rare flora and fauna of the Southern Appalachians
- Began a project to inventory the flora and plant communities of selected State Natural Areas in a partnership with the Tennessee Native Plant Society, the University of the South, and the University of Tennessee at Chattanooga
- Began distributional survey for bottlebrush crayfish (*Barbicambarus cornutus*)
- Continued FWS-funded surveys for endangered Nashville crayfish (*Orconectes shoupi*)
- Hosted seasonal biologist with focus on zoological research and data management
- Completed TWRA-funded surveys for three endangered crayfish (*Cambarus williamsi*, *Cambarus pristinus*, *Orconectes wrighti*) and submitted final report
- Coordinated videotaping of segment of "Tennessee's Wild Side" featuring crayfish *Orconectes wrighti*
- Coordinated surveys for endangered crayfish *Cambarus cymatilis* with Roger Thoma of Ohio State University
- Attended Tennessee Herpetological Society meeting at UT-Martin
- Coordinated visit to two caves with TNC for recording of segment aired by NPR-National Geographic "Radio Expeditions"

Ongoing Activities

- Site assessments of lands for rare species and assessment of Natural Areas Program
- Continue with environmental reviews, rare species, mapping, and collection permits
- Develop a process and methodology for identifying, evaluating, and mapping the 56 targeted terrestrial ecological systems in Tennessee, and incorporating the results into the Division's performance measures
- Continue monitoring Performance Measures progress
- Working with private landowners as part of the natural areas registry program

Planned Activities for 2007/2008

- Complete funded contract field work at Milan Army Ammunition Plant
- Complete TWRA funded contract for rare animal data management project
- Complete work on a GIS/Oracle-based environmental review database that will track for-fee reviews, permit and public notice reviews, office visits, and data use agreements
- Search for plants and animals which are close to becoming ranked as “state historic”
- Negotiate new Data Sharing Contracts with DOI-OSM, TDOF, and TWRA
- Seek 1 additional staff (Environmental Review Coordinator) through 2007/2008 budget improvement request
- Enter into new challenge cost share with the Cherokee National Forest for rare species data management
- Enter into contract agreement with TNC for providing ecological systems information for each of Tennessee’s rare plants
- Continue FWS-funded surveys for endangered Nashville crayfish (*Orconectes shoupi*)
- Complete distributional surveys for bottlebrush crayfish (*Barbicambarus cornutus*) in Barren River watershed

RARE PLANT PROTECTION PROGRAM

2006/2007 Annual Report

The Rare Plant Protection Program was established in 1986 through a formal Cooperative Agreement between the United States Fish and Wildlife Service and the Department of Environment and Conservation, as authorized under the Rare Plant Protection and Conservation Act of 1985. This Agreement established TDEC as the lead state agency in Tennessee for conducting programs for endangered and threatened plant species under the U.S. Endangered Species Act of 1973 Section 6(c). There are 21 Federal Listed plant species in Tennessee. The program receives approximately \$68,000 in federal funding annually to conduct 12 to 16 recovery projects for federally listed plants. In addition, the Program receives federal funding for land acquisition projects to protect populations of endangered or threatened plants. This program also administers the Ginseng Licensing Program.

Staff

This program has a staff of 2 (Program Manager, Biologist)

Enabling Legislation

Tennessee Rare Plant Protection and Conservation Act of 1985

Major Accomplishments for 2006/2007

- 21 Federal Listed plant species and 3 Candidate plant species, including 14 listed as Endangered
- Successfully completed 13 performance and financial reports for Section 6, Segment 19 grant projects via \$68,112 U.S. Fish and Wildlife Service grant.
- Successfully completed fieldwork on 15 Section 6, Segment 20 projects via \$66,895 U.S. Fish and Wildlife Service grant.
- Received \$80,913 for 14 Section 6, Segment 21 projects via U.S. Fish and Wildlife Service grant.
- Successfully applied for and was awarded a \$517,550 Recovery Land Acquisition Grant for the purchase of 1 tract of land totaling 2,171 acres owned by The Nature Conservancy at Dry Branch in Lewis County.
- Received a \$20,000 contract from the U.S. Fish and Wildlife Service to conduct a status survey for Cumberland sandwort and large-flowered skullcap.
- \$75,559 in total program revenues for 06/07 fiscal year

Ongoing Activities

- Continuation of fieldwork and compilation of the performance and financial reports on 15 Section 6, Segment 20 projects via \$66,895 U.S. Fish and Wildlife Service grant.
- Continuation of fieldwork on 14 Section 6, Segment 21 projects via \$80,913 U.S. Fish and Wildlife Service grant.
- Continuation of \$562,500 Recovery Land Acquisition grant project for North Chickamauga Creek Gorge in Hamilton County.

- Continuation of \$285,750 Recovery Land Acquisition grant project for Lane Farm in Wilson County.
- Continuation of \$552,087 Recovery Land Acquisition grant project for Flat Rock Cedar Glades and Barrens Nature conservancy tracts in Rutherford County
- Continue monitoring Performance Measures progress

Planned Activities for 2007/2008

- Submit application for a \$1,538,450 Recovery Land Acquisition grant to U.S. Fish and Wildlife Service for the purchase of Virgin Falls in White County.
- Complete performance and financial reports on 15 Section 6, Segment 20 projects via \$66,895 U.S. Fish and Wildlife Service grant.
- Completion of fieldwork on 14 Section 6, Segment 21 projects via \$80,913 U.S. Fish and Wildlife Service grant.
- Submit application for \$78,219 for 14 projects in Section 6, Segment 22 grant to U.S. Fish and Wildlife Service.
- Complete \$562,500 Recovery Land Acquisition grant project for North Chickamauga Creek Gorge.
- Complete \$285,750 Recovery Land Acquisition grant project for Lane Farm.
- Complete \$552,087 Recovery Land Acquisition grant project for Flat Rock Cedar Glades and Barrens Nature conservancy tracts.
- Complete \$1,417,180 Recovery Land Acquisition grant project for the purchase of Dry Branch in Lewis County.
- Complete fieldwork on status survey for Cumberland sandwort and large-flowered skullcap via \$20,000 grant from U.S. Fish and Wildlife Service.
- Complete application for Section 6, Segment 23 projects to start in 2009.
- Initiate the \$15,000 (phase one) State Wildlife Action Plan (SWAP) contract with the Tennessee Chapter of The Nature Conservancy (TNC) to enter rare plant data into the SWAP model.
- Initiate the Recovery on Public Lands \$3,250 contract with the Center for Plant Conservation to update and exchange records on the Federal Listed plant species in Tennessee.
- Initiate the \$11,500 NiSource Multi-state Multi-species Habitat Conservation Plan Planning Grant if awarded from U.S. Fish and Wildlife Service.
- Initiate the \$25,000 Partners for Fish and Wildlife grant from U.S. Fish and Wildlife Service to assist private landowners with management of rare plants on private property.
- Reorganize the Rare Plant Protection Program into the Natural Heritage Inventory Program.

GINSENG REGULATORY PROGRAM
(Administered by the Rare Plant Protection Program)
2006/2007 Annual Report

This Program manages activities related to the Ginseng Dealer Registration Act of 1983 and the Ginseng Harvest Season Act of 1985. There are on average 40 registered ginseng dealers in this \$3 - \$5 million per year industry. Presently, the program is managed under the Rare Plant Protection

Enabling Legislation

Ginseng Dealer Registration Act of 1983; Ginseng Harvest Season Act of 1985

Major Accomplishments for 2006/2007

- Permitted 40 dealers and satisfactorily completed 96 certifications by State Parks' 48 certifying officials.
- Completed the 2006 season annual report (June 30, 2007) for U.S. Fish and Wildlife Service regarding the harvest of 8,153.15 pounds of wild ginseng and 60.01 pounds of cultivated ginseng; and the certification (export) of 8,018 pounds of wild ginseng and 61.52 pounds of cultivated ginseng. The estimated value of harvested ginseng in Tennessee was \$2 million.
- TWRA Wildlife Officers issued seven citations for violations of the Ginseng Harvest Season Act and for trespassing on state or private lands while digging ginseng. Five of the people have paid fines.

Ongoing Activities

- Continuation of ginseng harvest monitoring and export certification program including the permitting of dealers and coordination of certifying officials.
- Continuation of program to deter poaching of ginseng from TDEC lands via marking populations on TDEC lands with dye and training certifying officials in the use of ultraviolet lights to detect dye on roots presented for certification.
- Preparation and submission of annual harvest and export report to U.S. Fish and Wildlife Service.
- Monitoring Performance Measures progress

Planned Activities for 2007/2008

- Continuation of ginseng harvest monitoring and export certification program including the permitting of dealers and coordination of certifying officials.
- Training of State Park certifying officials via visits to the top parks for certification of ginseng.

- Continuation of program to deter poaching of ginseng from TDEC lands via marking populations on TDEC lands with dye and training certifying officials in the use of ultraviolet lights to detect dye on roots presented for certification.
- Explore the possibility of having an open meeting with the ginseng dealers and diggers in Tennessee.
- Preparation and submission of annual harvest and export report to U.S. Fish and Wildlife Service.
- Explore the possibility of amending the Ginseng Harvest Season Act to change the beginning date of the harvest season in Tennessee.
- Present to the TDEC Forms Committee recommending some changes to the Ginseng Forms.

DNA REVENUE PROJECTS 2006/2007

	Project	Budgeted	Actual	Est. Next	
801	<u>FEDERAL REVENUE</u>	FY	FYTD	FY	
	CC# USFWS Section 6, Segment 19		559	0	
	CC# 52001 - 52052 - USFWS Section 6, Segment 20	47,300	46,074	0	
New	CC# 62101 - 62152 - USFWS Section 6, Segment 21	16,000	12,816	68,097	
	CC# 62201 - 62251 - USFWS Section 6, Segment 22	0	0	15,000	
	CC# 50069 - CNF Data Mgt. (75 records @ \$12.00 ea.)	0	2,880	1,416	
	CC# 21001 - USACOE - Data Services	5,000	5,000	5,000	
	CC# 21001 - USDA-NRCS Data Services	5,000	5,000	5,000	
	CC# 21001 - USDOJ-OSM Data Services	650	650	650	
New	CC# 21003 - USFWS Nashville Crayfish	1,000	2,262	2,739	
	CC# 22000 - USDA-NRCS-Tobacco Buy Out-Hampton Creek	576	576	576	
	CC# 22000 - USDA-NRCS-CRP-Ghost River	2,622	4,020	4,020	
New	CC# 22000 - USFS- HWA	0	0	0	
	CC# 23001 - USFWS - RLA Lane Farm	0	0	500	
	CC# 23004 - USFWS - RLA Flat Rock	1,000	895	105	
	CC# 23005 - USFWS Cumberland Sandwort	2,300	2,581	4,419	
	CC# 23006 - USFWS Large-Flowered Skullcap	<u>4,300</u>	<u>12,635</u>	<u>365</u>	
TOTAL 801 REVENUE		\$85,748	\$95,948	\$107,887	
860	<u>NON-GOVERNMENTAL</u>				
	CC# 21009 - Milan - Vegetative Plots	10,400	10,500	3,600	
	CC# 21010 - NatureServe - Element Occurrence Ranks - Plants	4,000	4,000	0	
New	CC# 21012 - NatureServe - Element Occurrence Ranks -Animals	3,270	3,270	0	
New	CC# 22012 - TPGF Grants to Natural Areas-Stillhouse Hollow	2,000	2,000	2,000	
	CC# 22000 - TPGF-from past projects	0	3,226	0	
New	CC# 22000 - LTA Rally Registration Reimbursement	<u>300</u>	<u>300</u>	<u>0</u>	
TOTAL 860 REVENUE		\$19,970	\$23,296	\$5,600	
880	<u>CURRENT SERVICES</u>				
	CC# 21001 - Data Services, Env. Rev. Fees (estimated)	3,000	3,710	3,000	
	CC# 40000 - Ginseng Program - Dealer License Revenues	<u>8,750</u>	<u>9,000</u>	<u>9,000</u>	
TOTAL 880 REVENUE		\$11,750	12,710	\$12,000	
890	<u>INTERDEPARTMENTAL</u>				
	CC# 21001 - TDOT - Data Services	5,000	5,000	5,000	
	CC# 21001 - TDEC WPC - Data Services	5,000	5,000	5,000	
New	CC# 21001 - TDOF - Data Services	5,000	5,000	5,000	
New	CC# 21001 - TWRA - Data Services	0	0	0	
	CC# 21006 - TDOF - Franklin-Marion State Forest Inventory	15,000	15,000	0	
New	CC# - TDOF - Pickett State Forest	<u>0</u>	<u>0</u>	<u>0</u>	
TOTAL 890 REVENUE		\$30,000	30,000	\$15,000	
TOTAL REVENUES		\$147,468	\$161,954	\$140,497	
	801	860	880	890	TOTAL
RSPP:	75,560	0	9,000	0	\$84,560
NHIP:	15,792	17,770	3,710	30,000	\$67,272
NAP:	4,596	5,526	0	0	\$10,122
Total	95,948	23,296	12,710	30,000	\$161,954

TDEC Performance Based Budget-Strategic Plan

Performance Results Report

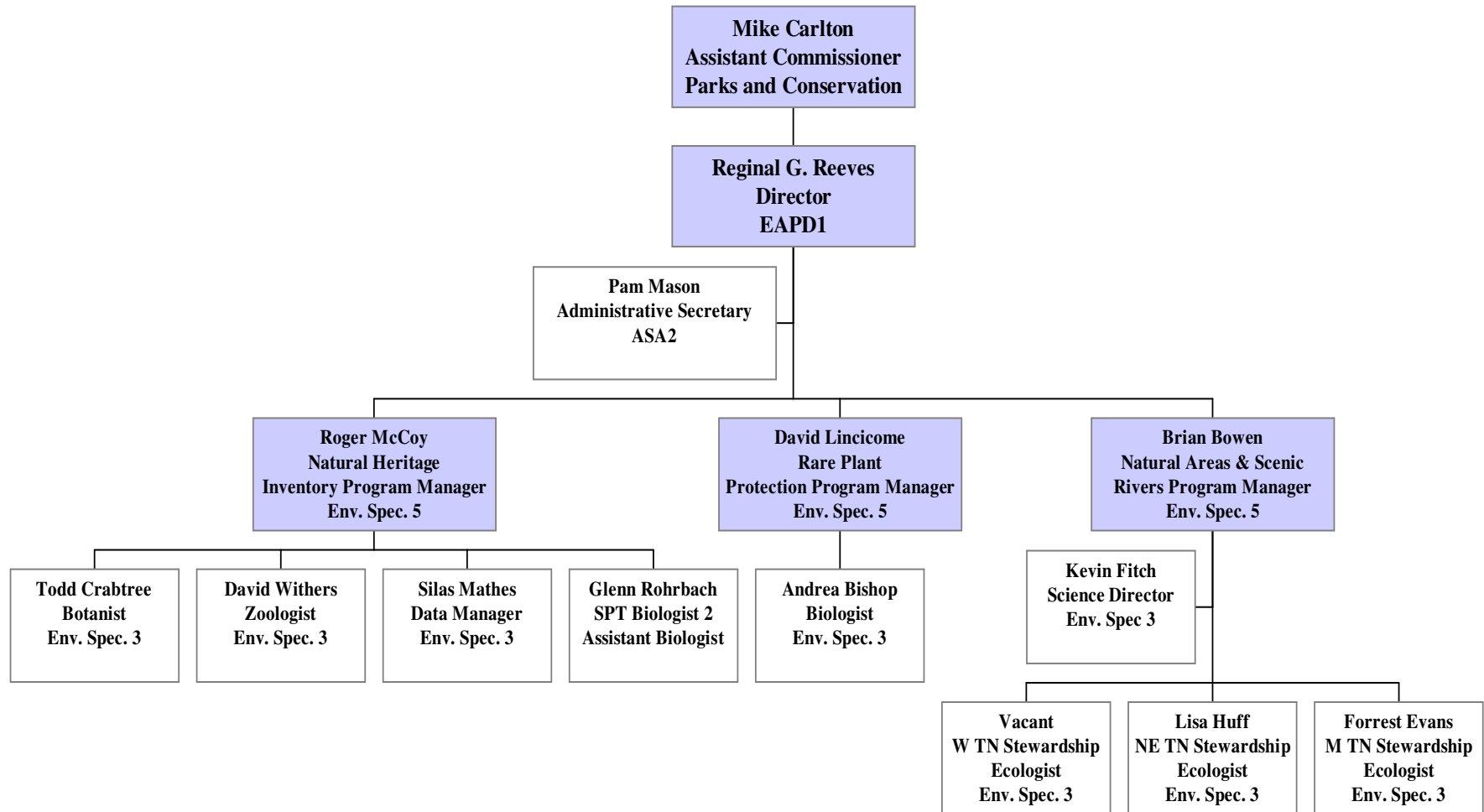
Date: July 27, 2007

Reporting Period: FY 2006/2007

Division of Natural Areas

327.14 Natural Areas: FY 2006-2007 PBB Plan			
PM#	Performance Measure (PM)	Performance Results	FY 2006-2007 Estimate
1	Percent of targeted rare plant species (S1, S2, S1/S2, and Federal Threatened, Endangered, and Candidate) with a minimum of at least one protected viable population in at least one state natural area and/or state scenic river. (Note that some species occur in both natural areas and rivers).	35.9%, or 161 of 449 targeted rare plant species 159 of 449 targeted rare plant species protected by Natural Areas (35.4%) 3 of 449 targeted rare plant species protected by Scenic Rivers (0.7%) vascular: 148 of 400 targeted rare species (37.0%) non-vascular: 12 of 48 targeted rare species (25.0 %)	32%
2	Percent of targeted rare animal species (S1, S2, S1/S2, and Federal Threatened, Endangered, and Candidate) with a minimum of at least one protected viable population in at least 1 state natural area and/or state scenic river. (Note that some species occur in both natural areas and rivers).	20.6 %, or 90 of 436 targeted rare animal species 46 of 436 targeted rare animal species protected by Natural Areas (10.6 %) 46 of 436 targeted rare animal species protected by Scenic Rivers (10.6 %) vertebrate: 35 of 110 targeted rare species (31.8 %) invertebrate: 55 of 326 targeted rare species (16.9 %)	20%
3	Percent of the 25 targeted ecoregions with at least 1 state natural area for each 5% of the state covered by each ecoregion.	80% or 20 of 25 targeted ecoregions represented by Natural Areas	92%
4	Percent of the 11 targeted watersheds with at least 1 scenic river.	73% or 8 of 11 targeted watersheds represented by Scenic Rivers	82%
5	Percent of the 56 targeted terrestrial ecological systems contained within at least one state natural area.	NA	NA

Division of Natural Areas Organizational Chart
2007



STRUCTURE F THE NATURAL AREAS ADVISORY COMMITTEE
2007

Number	Organization
12	Private Citizens/Business/Industry at Large East TN-Ellis Bacon, Mary Johnson, Sandie Bishop Middle TN-Martin Brown, Monty Halcomb, Bill Bruce, Elsie Quaterman, Ruth Neff, Ann Tidwell West TN- James Gilliland, Bill Taylor, Charles Askew
5	Federal Agencies Tennessee Valley Authority (TVA)-Ralph Jordan U.S. Army Corps of Engineers (USACOE)-Avis Kennedy U.S. Forest Service (USFS)-Tom Speaks U.S. Fish and Wildlife Service (USFWS)-Lee Barclay Natural Resource Conservation Service (NRCS)-Kevin Brown
3	State Agencies Tennessee Department of Environment and Conservation (TDEC) Bureau of Parks and Conservation-Jim Fyke Tennessee Division of Forestry (TDOF)-Steven Scott Tennessee Wildlife Resources Agency (TWRA)-Gary Myers
5	Non-Profit Conservation Organizations and Commissions The Nature Conservancy (TNC)-Scott Davis Tennessee Citizens for Wilderness Planning (TCWP)-Mary Lynn Dobson Tennessee Wildlife Federation (TWF)-Mike Butler The Conservation Fund (TCF)-Rex Boner The Conservation Commission (TCC)-Will Martin
1	Academic Institutions University of Memphis (UM)-Scott Franklin
26 Total Members	

2007 Tennessee Rare Plant Scientific Advisory Committee
(Authorized under The Rare Plant Protection and Conservation Act of 1985)

Dr. Edward Chester
Austin Peay State University

Dr. Edward Clebsch
Native Gardens

Leo Collins
TVA Natural Heritage Program

Dr. Paul Davison
University of Northern Alabama

Dwayne Estes
University of Tennessee

Mr. Dennis Horn
Tennessee Native Plant Society

Mary Priestley
University of the South

Dr. Patricia Cox
TVA Natural Heritage Program

Dr. David K. Smith
University of Tennessee

Dr. Jeffrey Walck
Middle Tennessee State University

Dr. Eugene Wofford
University of Tennessee

Claude Bailey, Jr.
Jackson State Community College